Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (canceled)

9.   (currently amended) A sample processing apparatus comprising:

a main unit for processing a sample having at least one processing chamber in which the sample is disposed for being processed;

a recording device which records information of an operation executed by the main unit as predetermined data;

~~a calculator which calculates and simulates~~ calculating means for calculating and simulating the operation executed by the main unit using the predetermined data recorded during the operation which was executed by the main unit according to an instruction which is given by a user of the sample processing apparatus after the operation which was executed by the main unit;

a display which is located remotely from the main unit and displays the simulated operation simulated by the calculating means including occurrence of an abnormality.

10.   (currently amended) A sample processing apparatus according to claim 9, wherein the predetermined data includes the information at a time when ~~an~~ the abnormality takes place in the sample processing apparatus ~~and the calculator simulates the operation in which said abnormality took place~~.

11.   (currently amended) A diagnosis apparatus of a sample processing apparatus comprising a recording device which records information of an operation executed by the sample processing apparatus for processing a sample through a

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communicating device as predetermined data, an input device for inputting a user instruction concerned with the information of the operation after the execution of the operation, and a display located remotely from the sample processing apparatus for displaying a result supplied by a ~~calculator which calculates~~ calculating means for calculating the operation of the sample processing apparatus and for simulating the operation which has been previously executed corresponding to the user instruction, wherein the result includes an occurrence of an abnormality .

12.   (currently amended) A diagnosis apparatus of a sample processing apparatus according to claim 11, wherein the predetermined data includes the information at a time when ~~an~~ the abnormality takes place in the sample processing apparatus~~, and the calculator simulates the executed operation in which the abnormality took place~~.

13.   (currently amended) A program for a sample processing apparatus for processing a sample comprising the steps of:

receiving an instruction from an input device given by a user inputting the instruction which is concerned with information of an operation executed by the sample processing apparatus, the information being received from a supplier supplying the information of the executed operation through a communicator and recorded as predetermined data, the instruction being inputted after the operation has been executed by the sample processing apparatus; and

displaying a simulated result supplied by a ~~calculator which calculates~~ calculating means for calculating the operation of the sample processing apparatus and ~~simulates~~ for simulating the previously executed operation according to the instruction, wherein the simulated result includes occurrence of an abnormality.

14.   (currently amended) A program for a sample processing apparatus for processing a sample according to claim 13, wherein the predetermined data includes

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the information at a time when ~~an~~ the abnormality takes place in the sample processing apparatus~~, and the calculator simulates the operation in which the abnormality took place~~.

15. (new)   A sample processing apparatus according to claim 10, wherein the display displays information about the abnormality.

16. (new)   A diagnosis apparatus of the sample processing apparatus according to claim 12, wherein the display displays information about the abnormality.

17. (new)   A program for a sample processing apparatus for processing the sample according to claim 14, wherein the step of displaying includes displaying information about the abnormality.